

APFO WORKGROUP

Status Report – APFO Database/Mapping
Maryland Sustainable Growth Commission
March 23, 2015

Counties with APFOs in Maryland

- **Counties with APFOs**
 - 14 – Schools and Roads
 - 12 – Water
 - 11 – Sewer
- **Counties without APFOs**
 - 9 – Schools and Roads
 - 11 – Water
 - 13 – Sewer
- **26 Municipalities w/APFOs**

Table 1: Counties with APFOs in Maryland

COUNTIES WITH ADEQUATE PUBLIC FACILITIES ORDINANCES IN MARYLAND, AS OF DECEMBER 31, 2012									
County Regulations, 2012									
Jurisdiction	Schools	Roads	Water	Sewer	Stormwater Drainage	Health Care	Fire	Police	Solid Waste Disposal
Anne Arundel	x	x	x	X	x		x		
Baltimore	x	x	x	x	x				
Calvert	x	x							
Caroline	x	x			x		x		x
Carroll	x	x	x	x			x	x	
Charles	x	x	x				x		
Frederick	x	x	x	x					
Harford	x	x	x	x					
Howard	x	x	x	x					
Montgomery	x	x	x	x		x	x	x	
Prince George's	x	x	x	x	x		x	x	
Queen Anne's	x	x	x	x					
St. Mary's	x	x	x	x	x		x		
Washington	x	x	x	x			x		

APFO Workgroup Report 2013

- 7. MDP should coordinate with MDE, SHA, MSDE and other public facility providers to develop coordinated public facility databases, similar to the Public School Construction Program's (PSCP) database, which provides easy monitoring of public facility capacities or utilization rates.



2014 Annual Report

Maryland Department of Planning

2013 APFO Restrictions

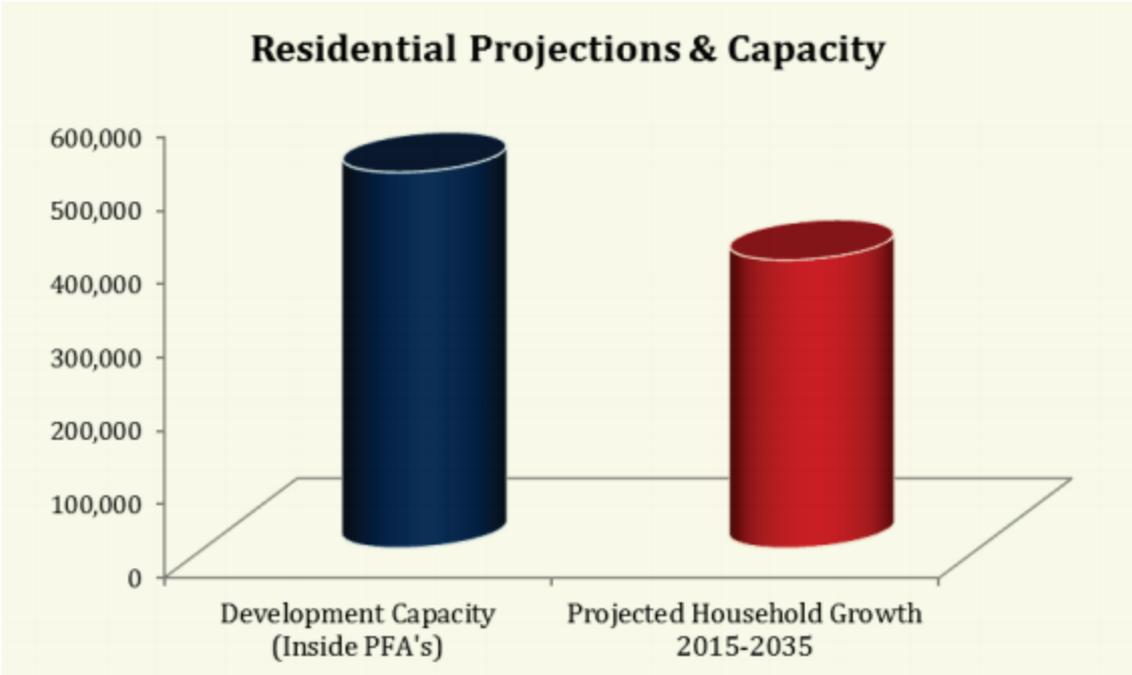
Reported:

7 Counties

1 Municipality

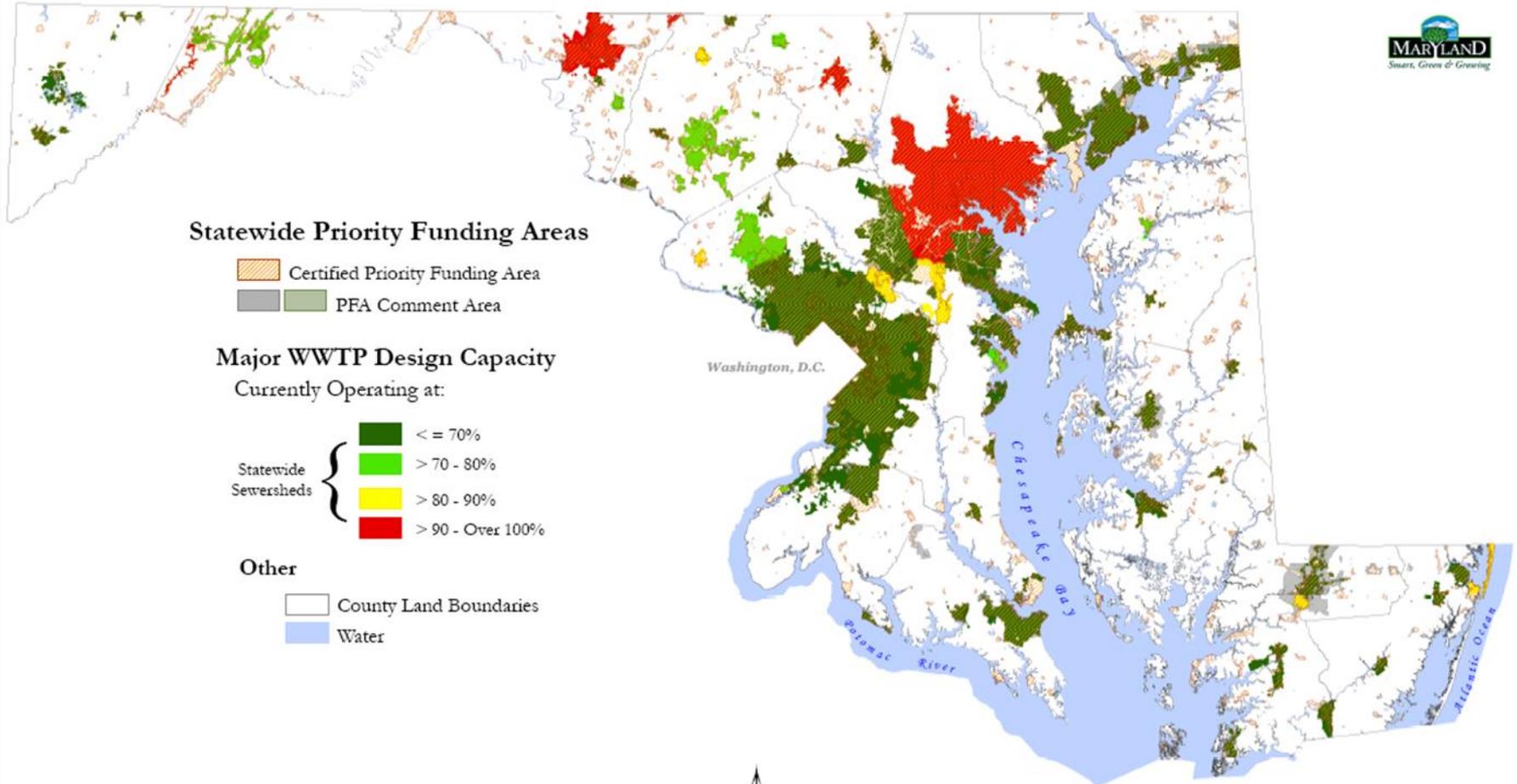
Jurisdiction	Notes/Comments
Frederick	<p>2012: Frederick City and Frederick County reported restrictions in seven elementary school districts, two middle school districts and one high school district. All seven elementary schools and one of the middle schools were located in Frederick City. The Yellow Springs Elementary School boundary is identified as being mostly outside the PFA. The county does not indicate the number of projects within the PFA affected by these restrictions. The county identifies that an additional 4,475 new seats are scheduled in the 2012-2018 Educational Facilities Master Plan. In 2012, a renovation was completed at Lincoln Elementary School and a 240-seat addition completed at Oakdale Elementary School.</p> <p>2013: Frederick County reports 14 elementary schools and four middle schools at or over 100% of the State Rated Capacity. If capacity is between 100% and 120%, then projects in these districts may choose the School Construction Fee Option in addition to the normal school impact fee. Three elementary school districts and one middle school district are over 120% of the State Rated Capacity. Seven of the affected elementary schools and two middle charter schools are in the City of Frederick. Five new elementary schools and three elementary school renovations are included in the 2013 Educational Facilities Master Plan, with an estimated increase of over 3,800 seats. A middle school addition and a high school replacement are also planned. Four elementary school and one middle school addition are programmed in the 2014-2019 CIP.</p>
Harford	<p>2012: There was a reported restriction in one elementary school district. Although major subdivisions will not be approved until these restrictions are resolved, the county did not indicate the number of projects within the PFA affected by this restriction.</p> <p>The county identifies 12 sewer pump stations that do not have capacity. The county did not indicate the number of projects, within the PFA, affected by these capacity issues.</p> <p>2013: No restrictions were reported.</p>
Howard	<p>2012: There were reported restrictions in five elementary school districts and two middle school districts. The county reports that four plans and 12 units are affected within the "Established Communities Allocation Area" and five projects with 133 units are affected by the closed schools. The county did not provide a timetable for resolving these capacity issues.</p> <p>2013: Howard County reports that one, out of 41 elementary schools was closed. Two plans and 22 residential units were immediately on hold. Two plans with 682 residential units are on future hold. Four out of 18 middle schools are reported as closed. A new middle school was anticipated to be opened for the fall 2014.</p>

Residential Capacity Inside PFA



WWTP Capacity - Existing

Evaluating Capacity of Major WWTPs within PFA

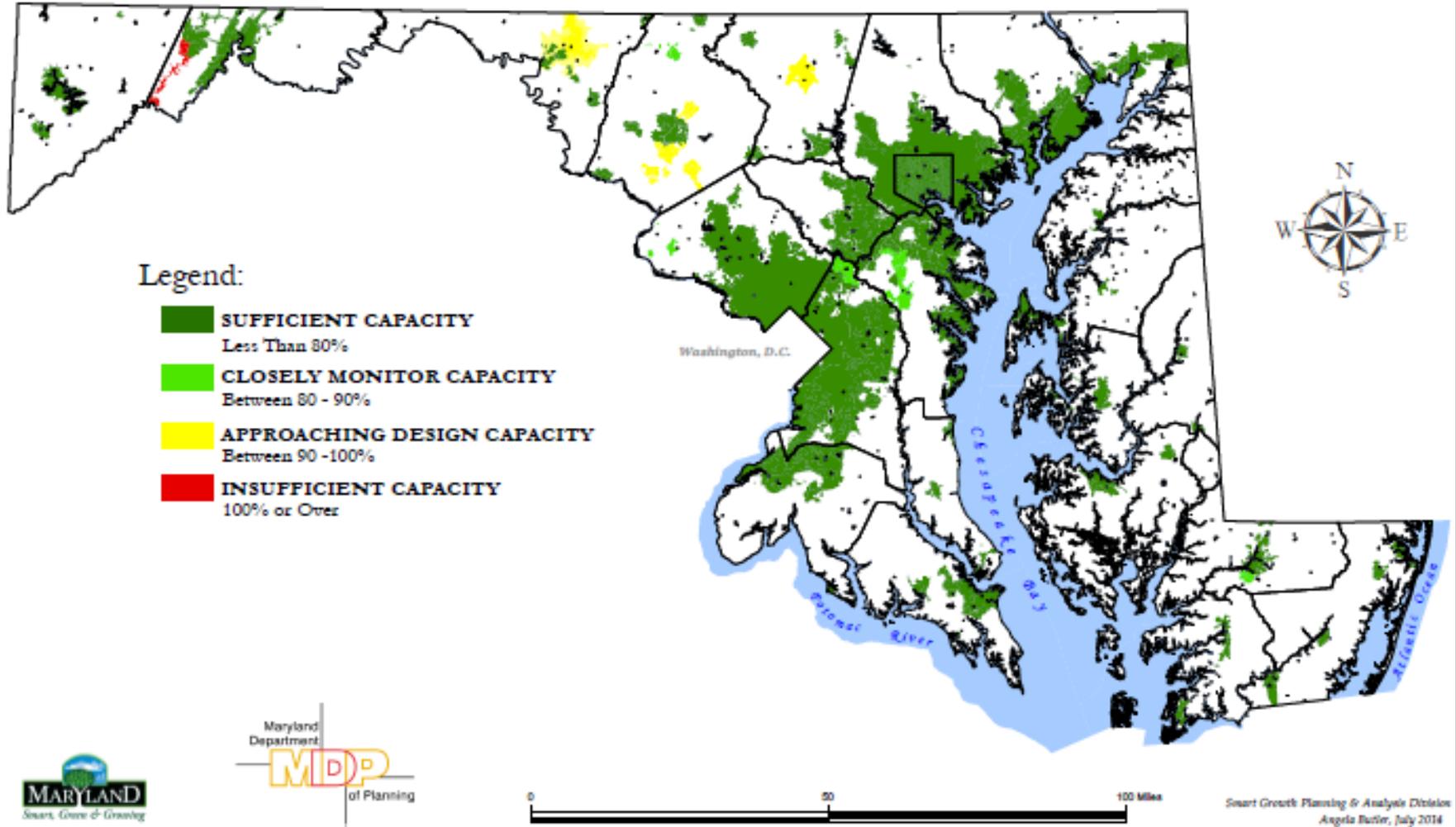


Note: This analysis involved only the largest WWTPs in Maryland, the 71 Major Municipal Wastewater Treatment Plants (WWTPs). These WWTPs have a design capacity of 500,000 gallons per day or more and discharge into the Chesapeake Bay Watershed from Maryland. Due to focus of this analysis, the map does not show existing minor WWTPs and smaller sewer service areas located in Maryland.

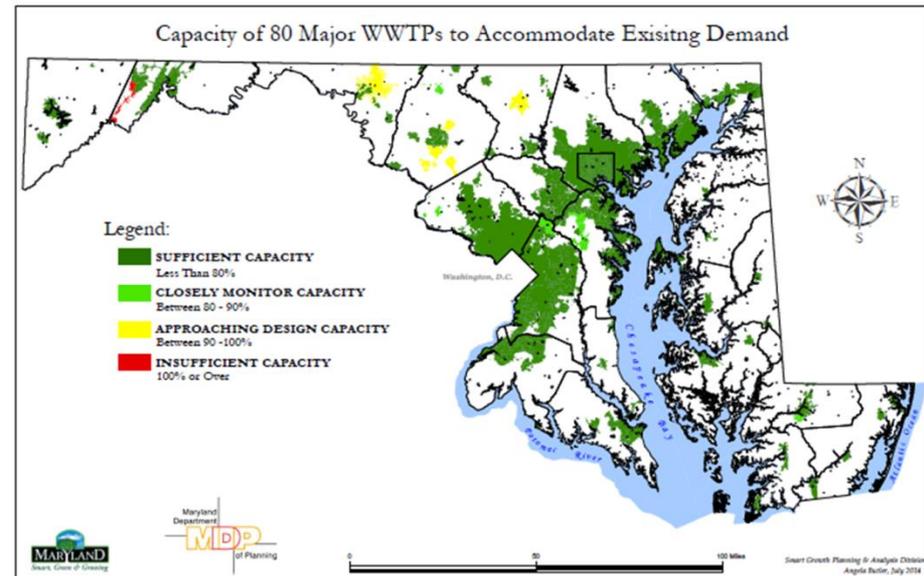
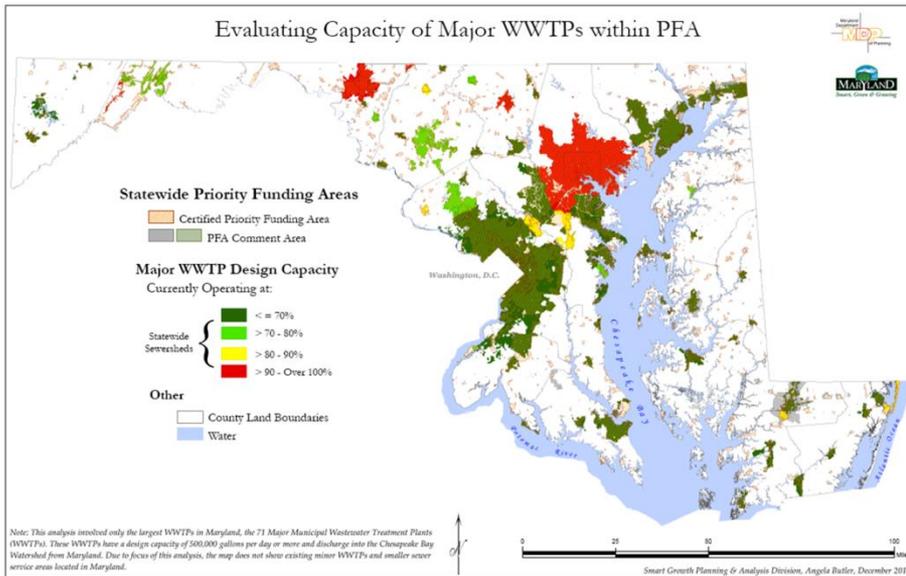


WWTP Capacity - Programmed

Capacity of 80 Major WWTPs to Accommodate Existing Demand



WWTP Capacity



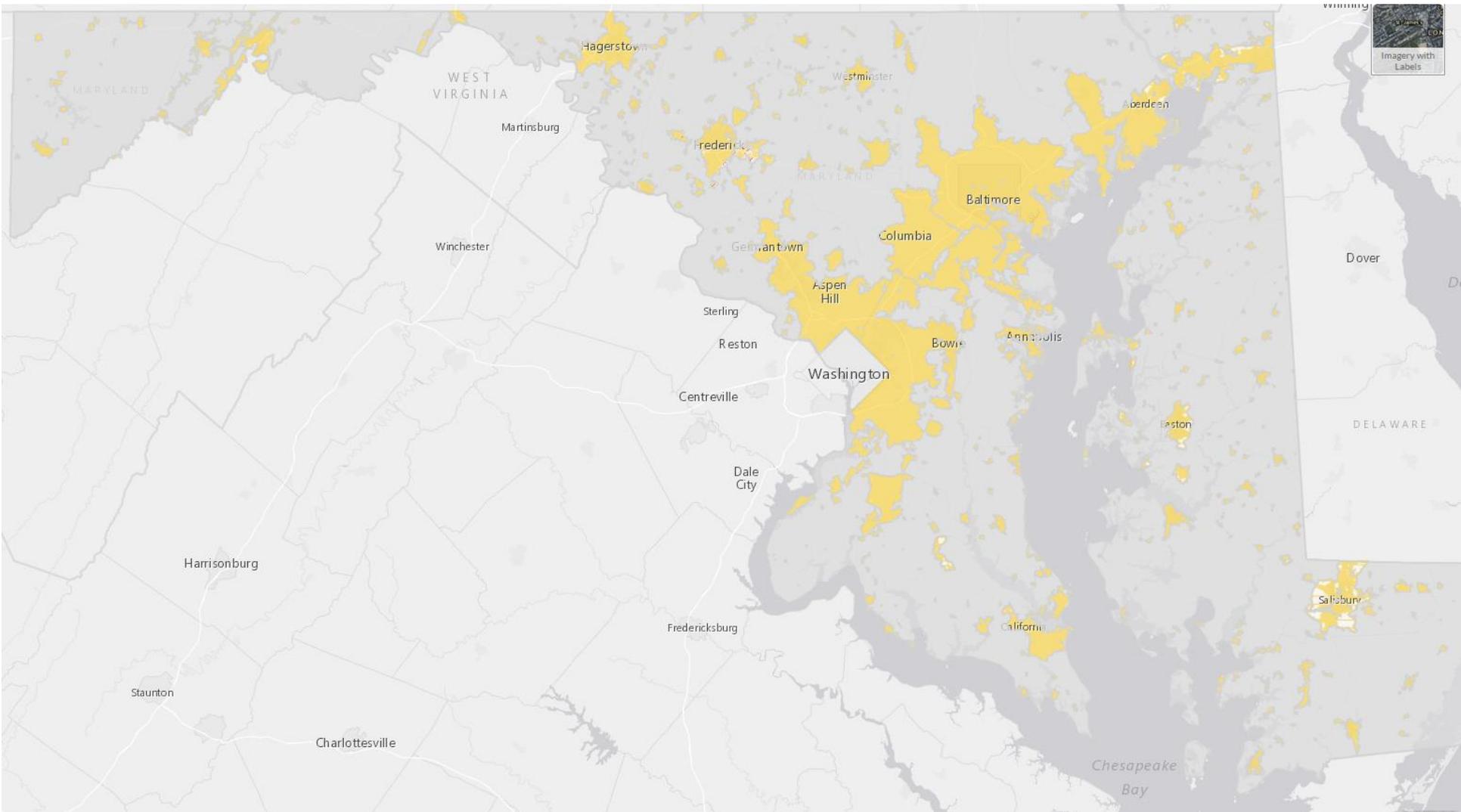
Existing vs. Programmed

School Capacity

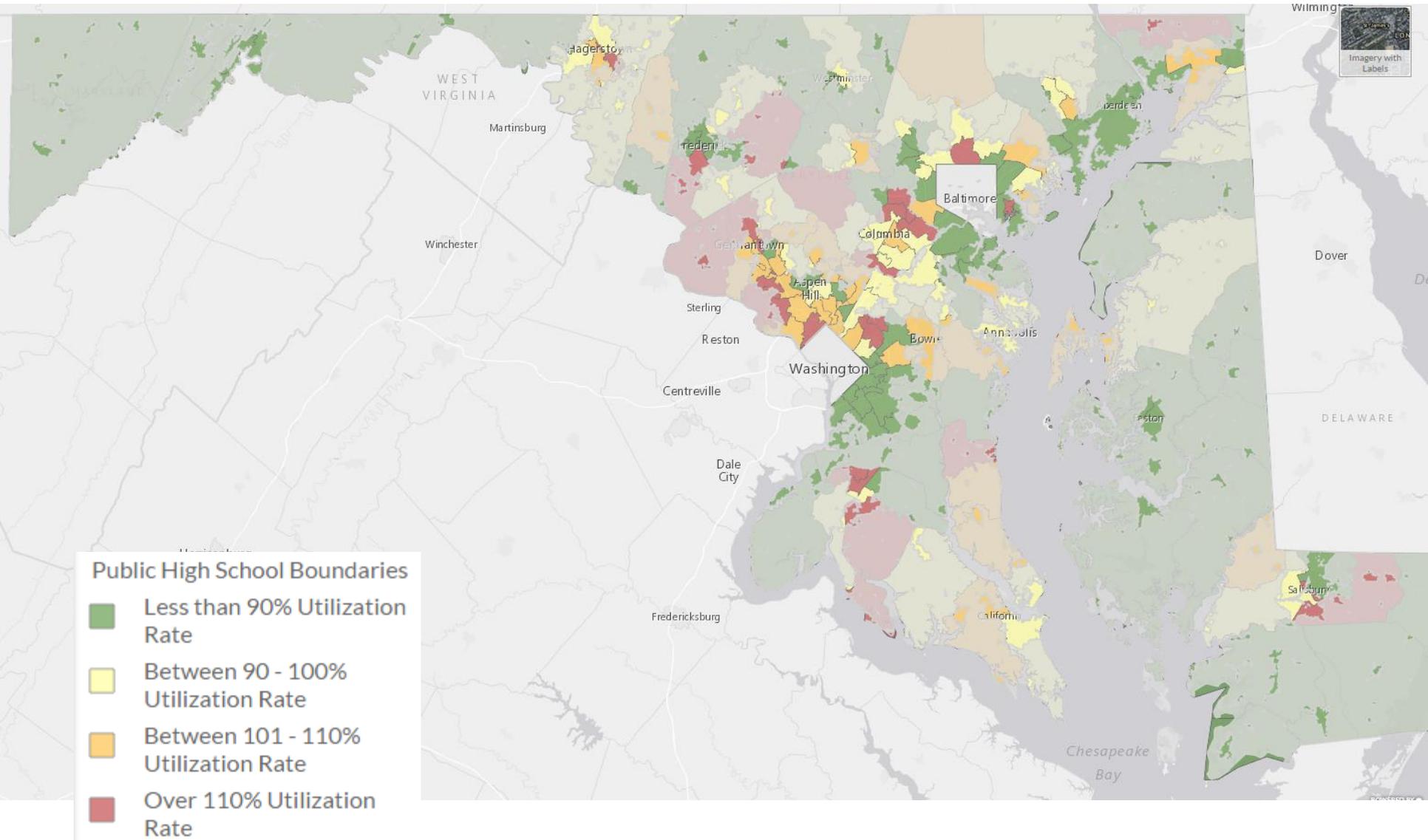
Table 5: Adequate Public Facility Provisions - Schools (continued)

Jurisdictions with LOS Requirements Between 100% and 115%	
Baltimore	115% of state-rated capacity or adequacy in CIP in district or adjacent district.
Carroll	109% of state-rated capacity is adequate; conditional approval if adequacy in 6 year CIP. 110-119% of state-rated capacity is "approaching inadequate" and subject to permit restrictions.
Harford	110% of state-rated capacity within 3 years.
Howard	Open/closed chart, or housing allocation test, defined by school region, approved by County Council. No more than 300 allocations if district over 100%. Close if ES and MS in district is over 115%.
Prince George's	105% of state-rated capacity.
St. Mary's	Elementary schools - 107% of state-rated capacity. Middle schools - 109% of state-rated capacity. High schools - 116% of state-rated capacity. Based on capacity within 3 years.
Jurisdictions with LOS Requirements of 120% or More	
Montgomery	120% state-rated capacity; school facilities fee option for 105%-120%; does not include re-locatable structures, considers first 5 years of CIP.

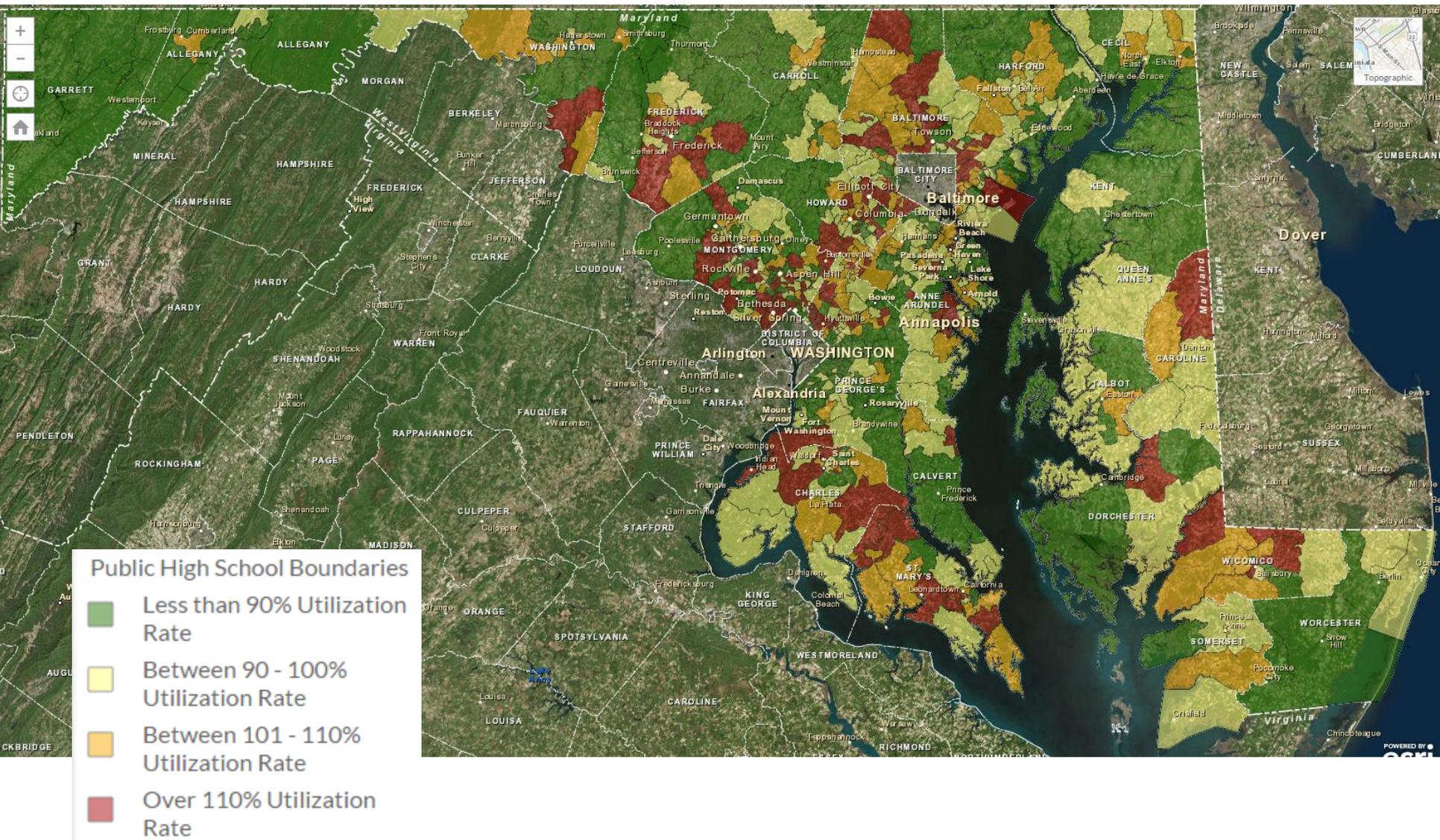
School Capacity – Within PFA



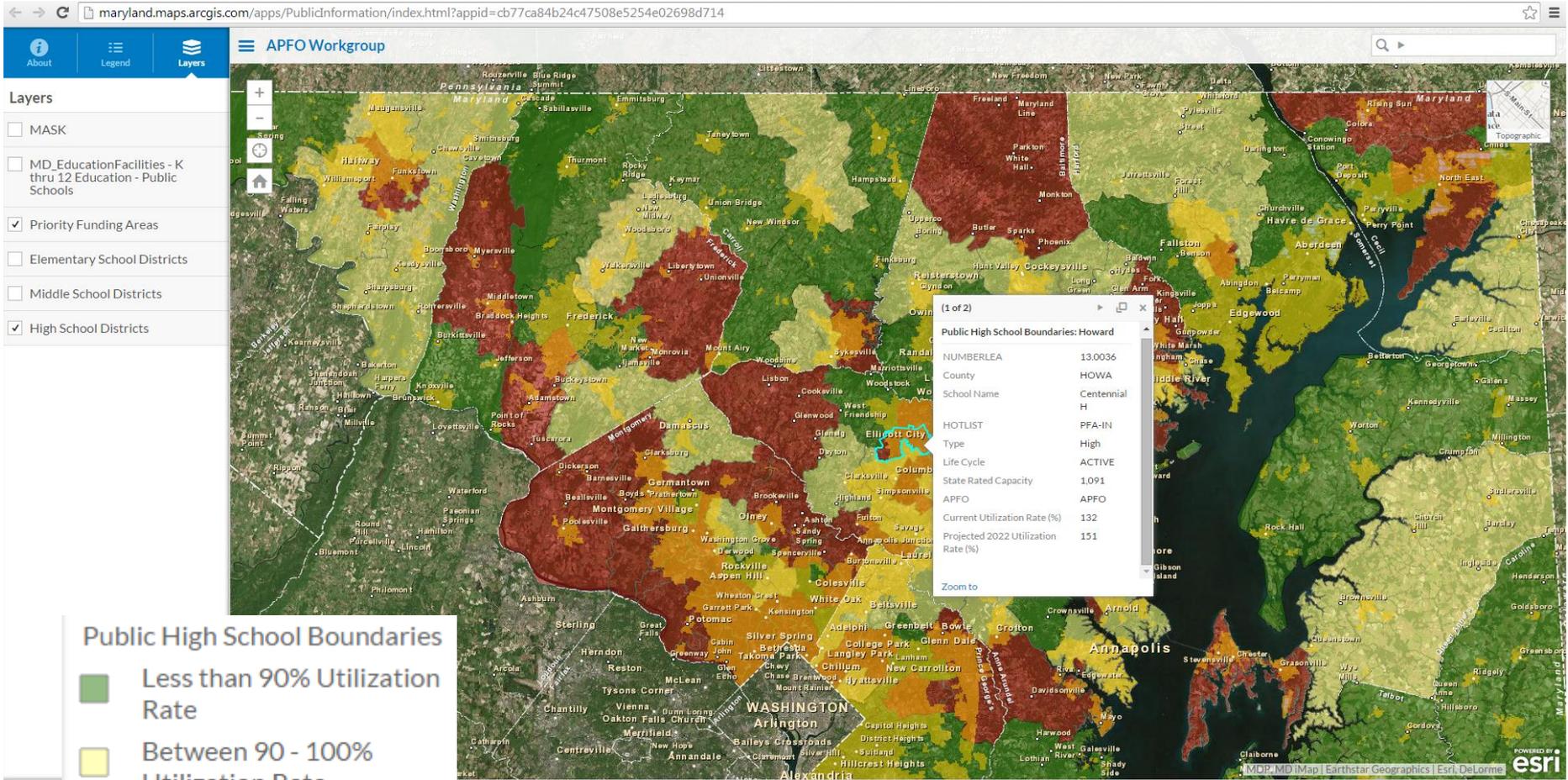
School Capacity – High Schools Within PFA



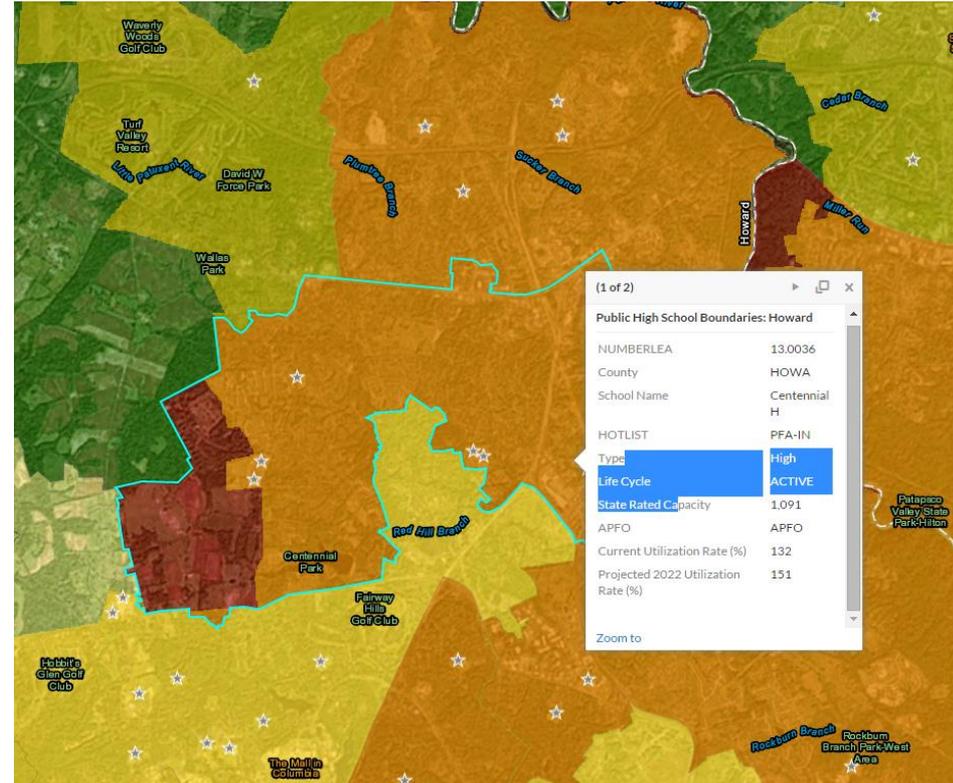
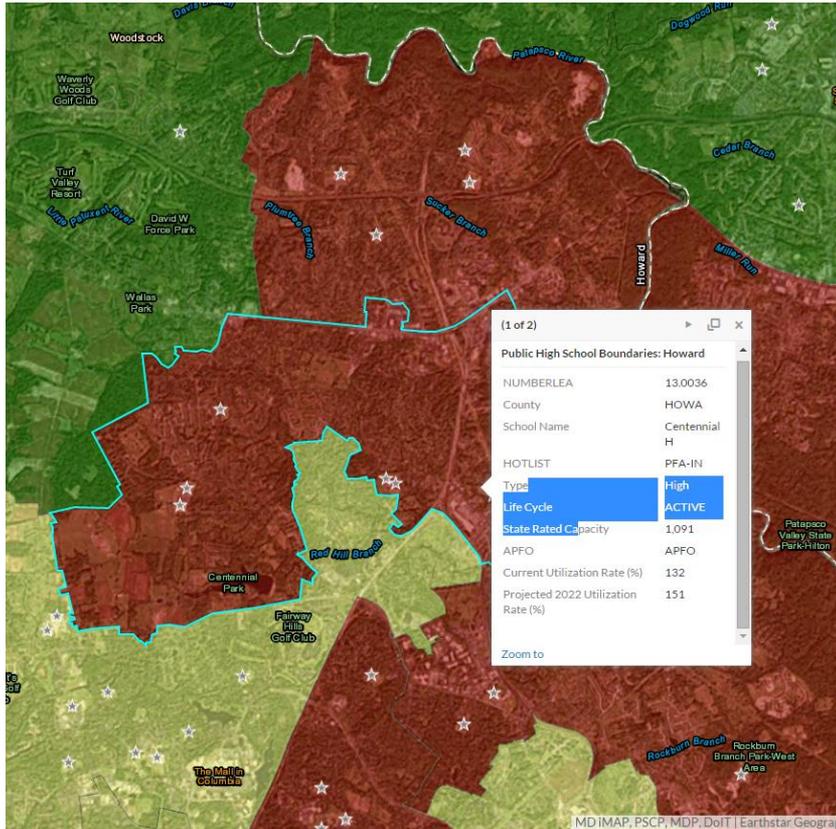
School Capacity – High Schools/Statewide



School Capacity



School Capacity – With APFO

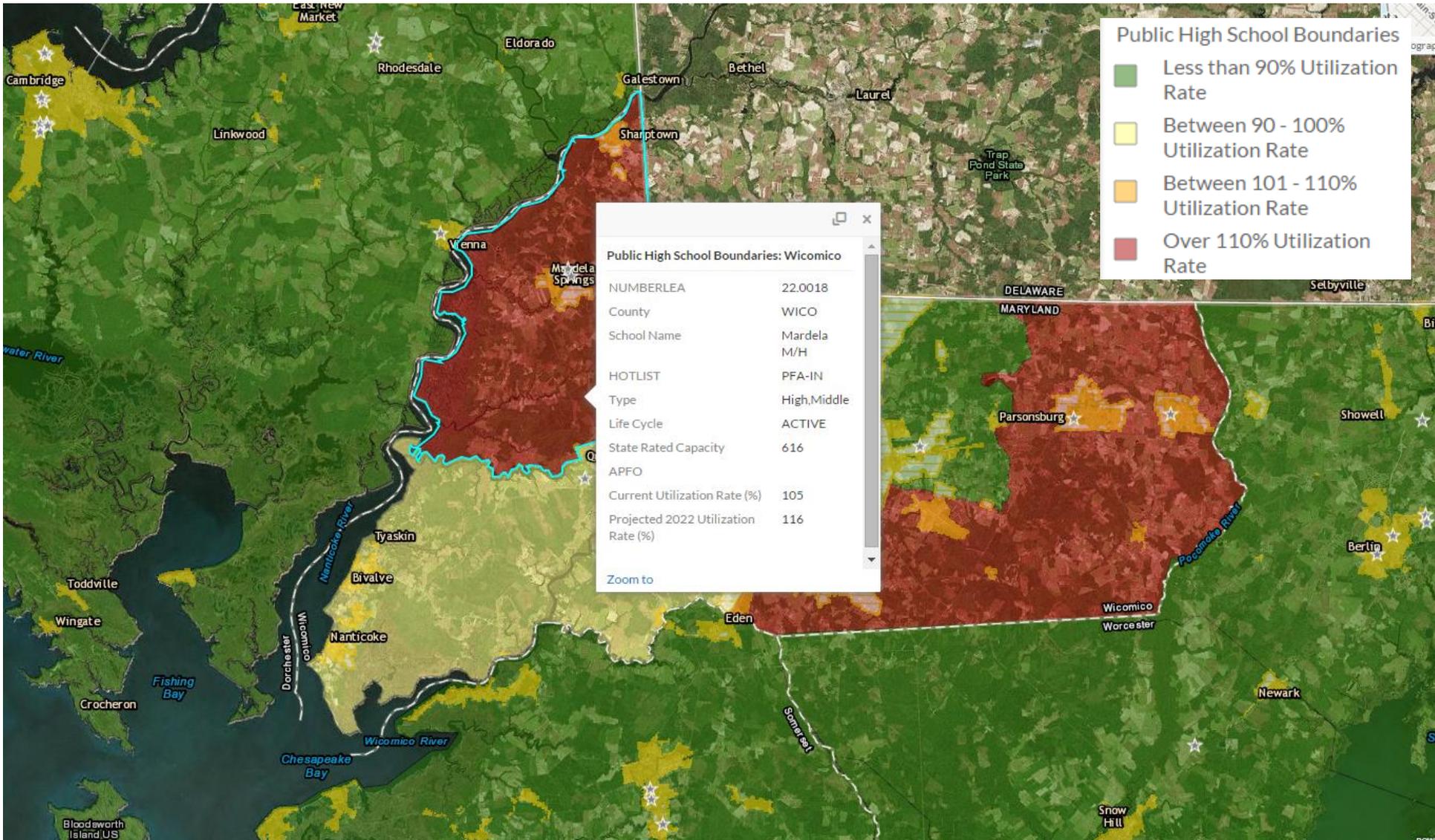


PFA Layer **OFF**

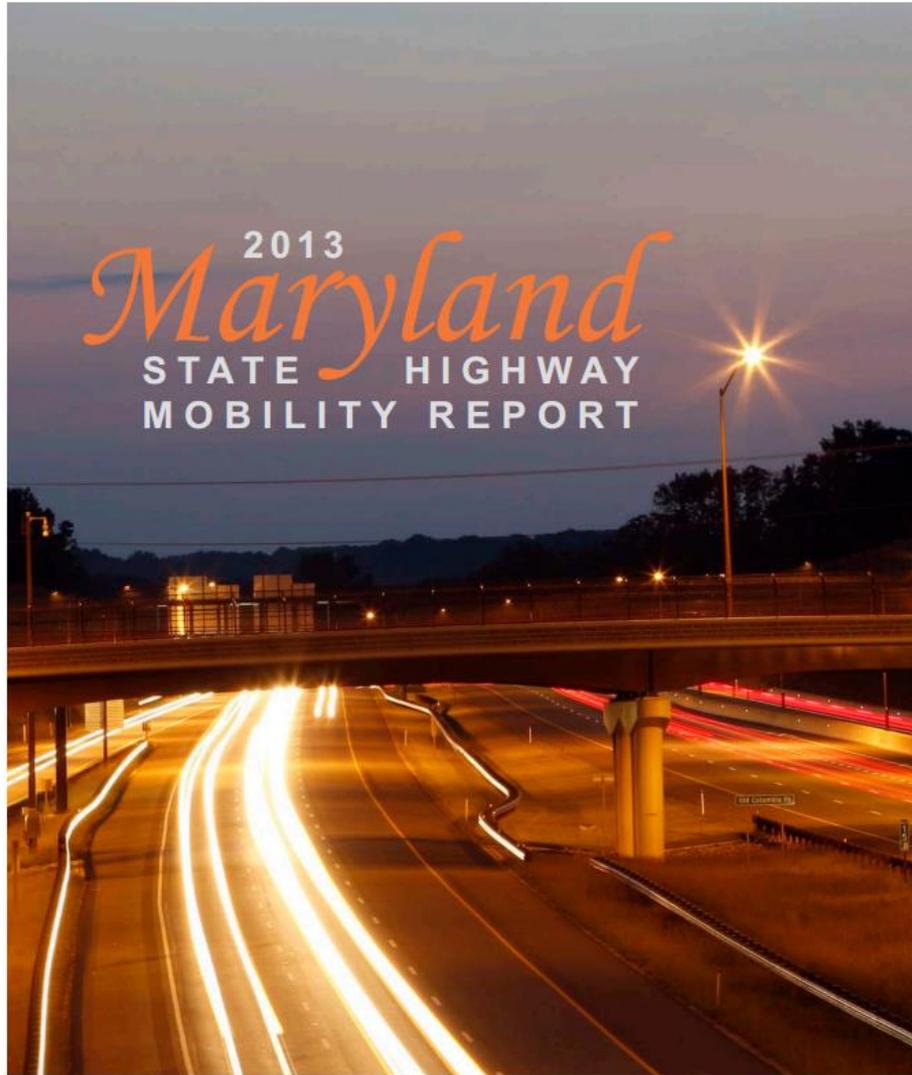
vs.

PFA Layer **ON**

School Capacity – Without APFO



Road Capacity



SEPTEMBER 2013

Martin O'Malley, Governor
Anthony G. Brown, Lt. Governor



Maryland Department
of Transportation

Most Congested Road Segments

2012 MOST CONGESTED FREEWAYS/EXPRESSWAY SEGMENTS

AM Peak (7-8 AM)	PM Peak (5-6 PM)
I-495 Outer Loop - I-95 to MD 97	I-495 Inner Loop - Virginia State Line to I-270
I-270 Southbound - Shady Grove Road to MD 189	I-270/I-495 Outer Loop - Democracy Boulevard to Virginia State Line
I-695 Outer Loop - US 1 to Providence Road	I-495 Inner Loop - MD 187 to MD 97
I-695 Outer Loop - MD 122 to US 40	I-695 Inner Loop - MD 139 to MD 146
I-270 Southbound - Father Harley Boulevard to MD 117	MD 295 (Baltimore – Washington Parkway) Northbound - I-95 to MD 197*

* - Maintained by National Parks Service

Most Unreliable Road Segments

2012 MOST UNRELIABLE FREEWAYS/EXPRESSWAY SEGMENTS

AM Peak (7-8 AM)	PM Peak (5-6 PM)
I-495 Outer Loop - I-95 to MD 97	I-270 Southbound/I-495 Inner Loop - Democracy Boulevard to Virginia State Line
I-695 Outer Loop - US 1 to Providence Road	I-495 Inner Loop/I-270 Southbound - MD 187 to MD 97
I-270 Southbound - Shady Grove Road to Montrose Road	I-495 Inner Loop - Clara Barton Parkway to I-270
I-695 Outer Loop - MD 140 to US 40	US 50/301 Eastbound - MD 450 to MD 70
US 50 Westbound - MD 410 to MD 201	MD 295 (Baltimore – Washington Parkway) Northbound - I-95 to MD 197*

* - Maintained by National Parks Service

Figure 1

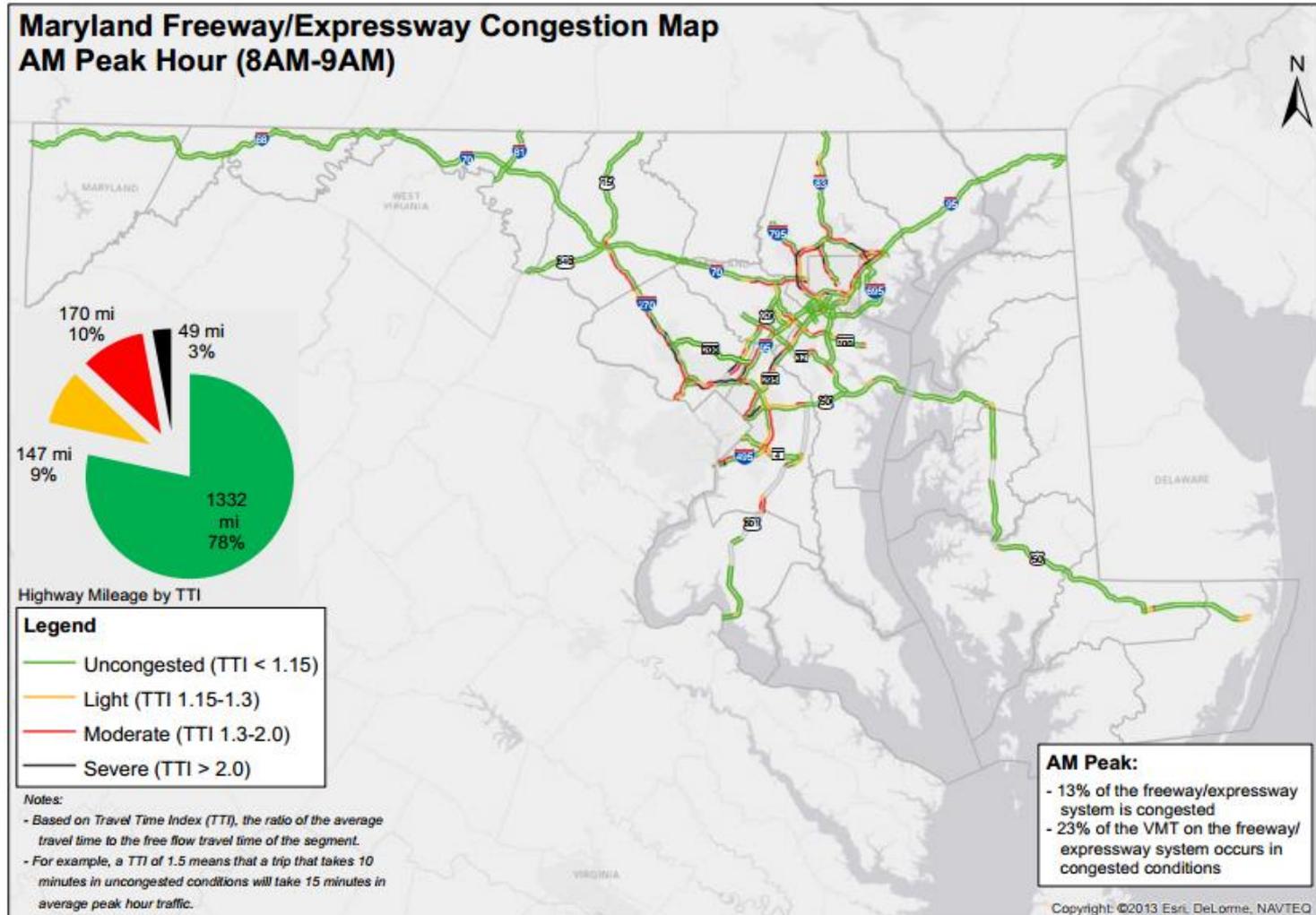


Figure 2

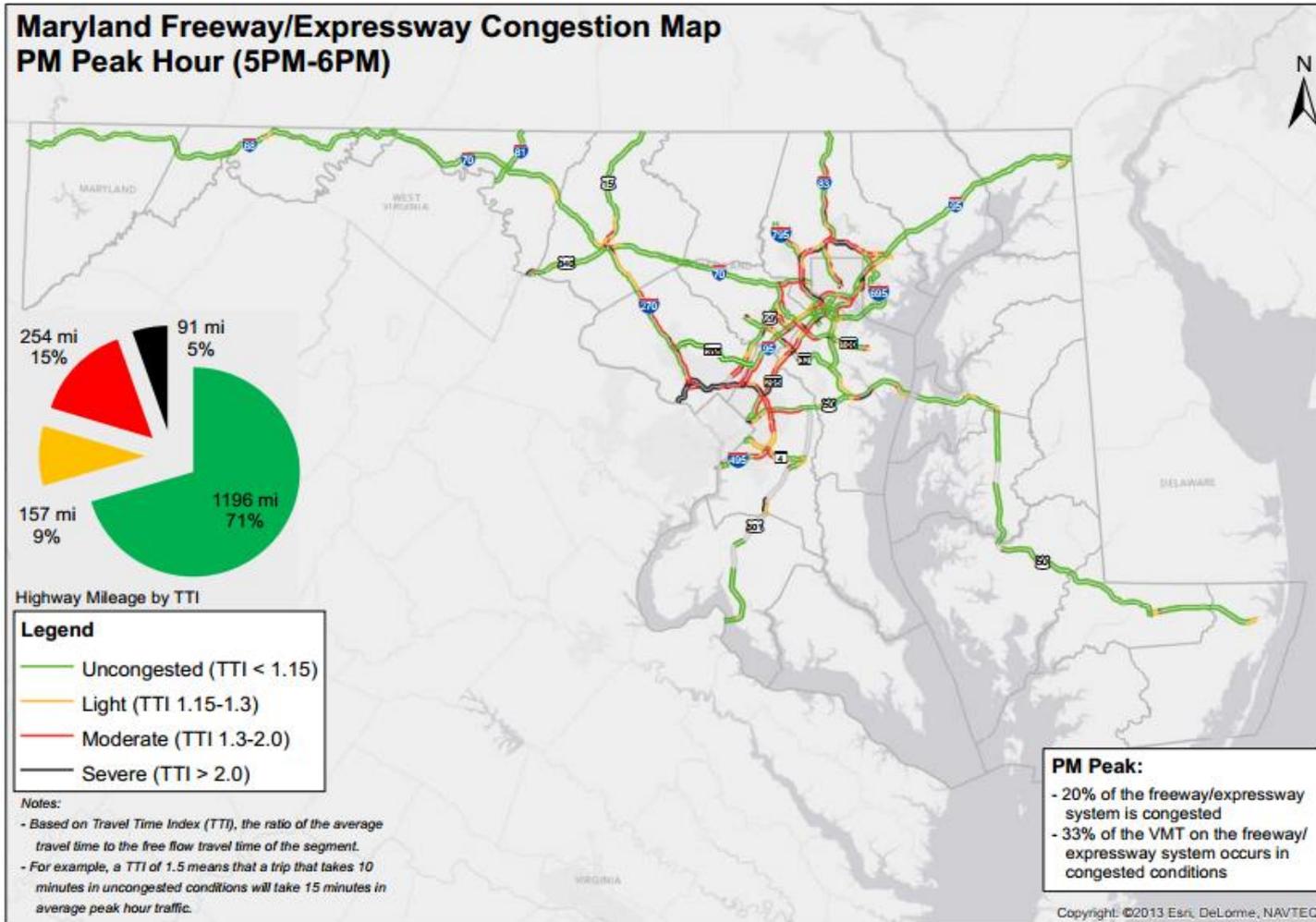


Figure 6

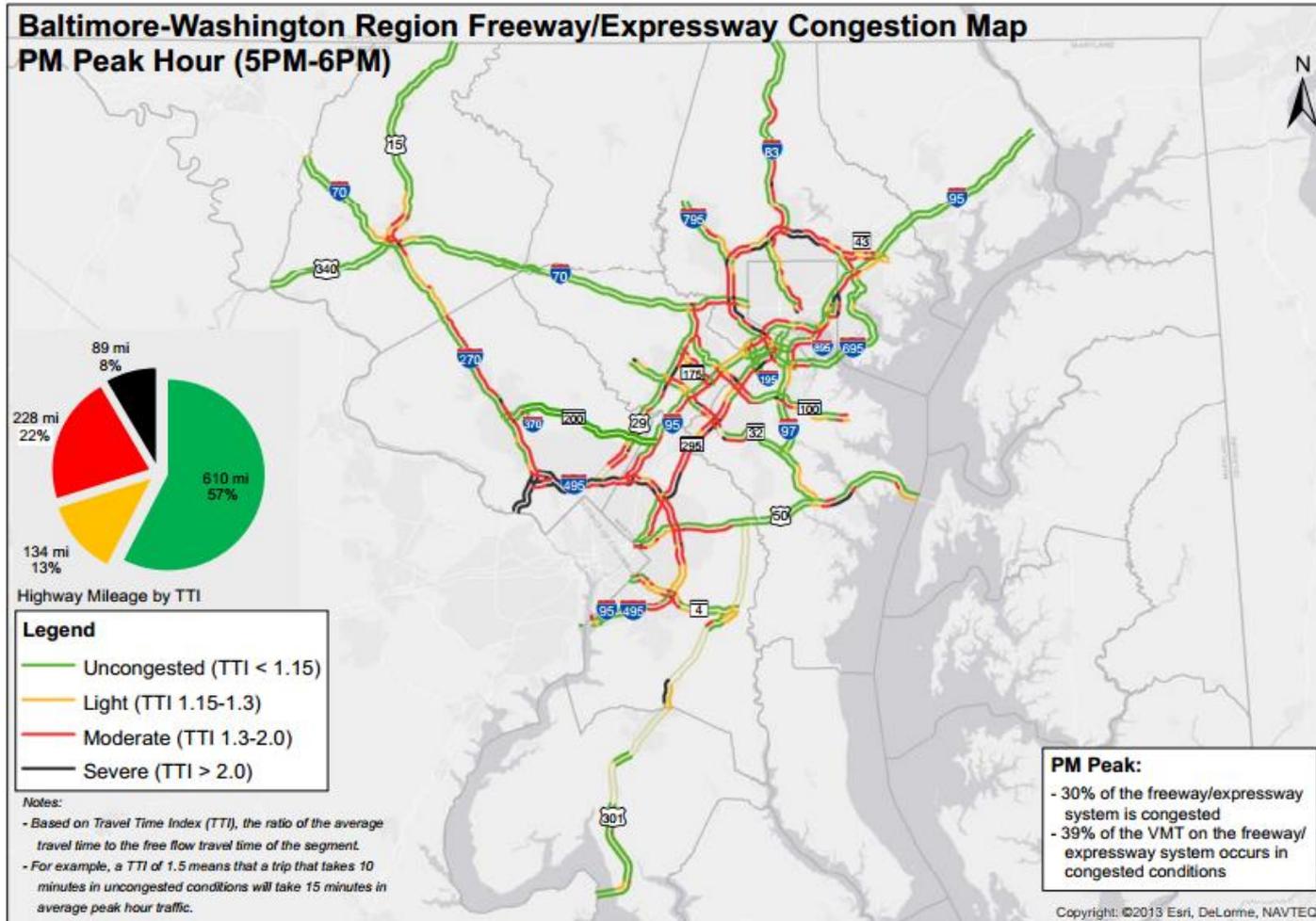


Figure 3

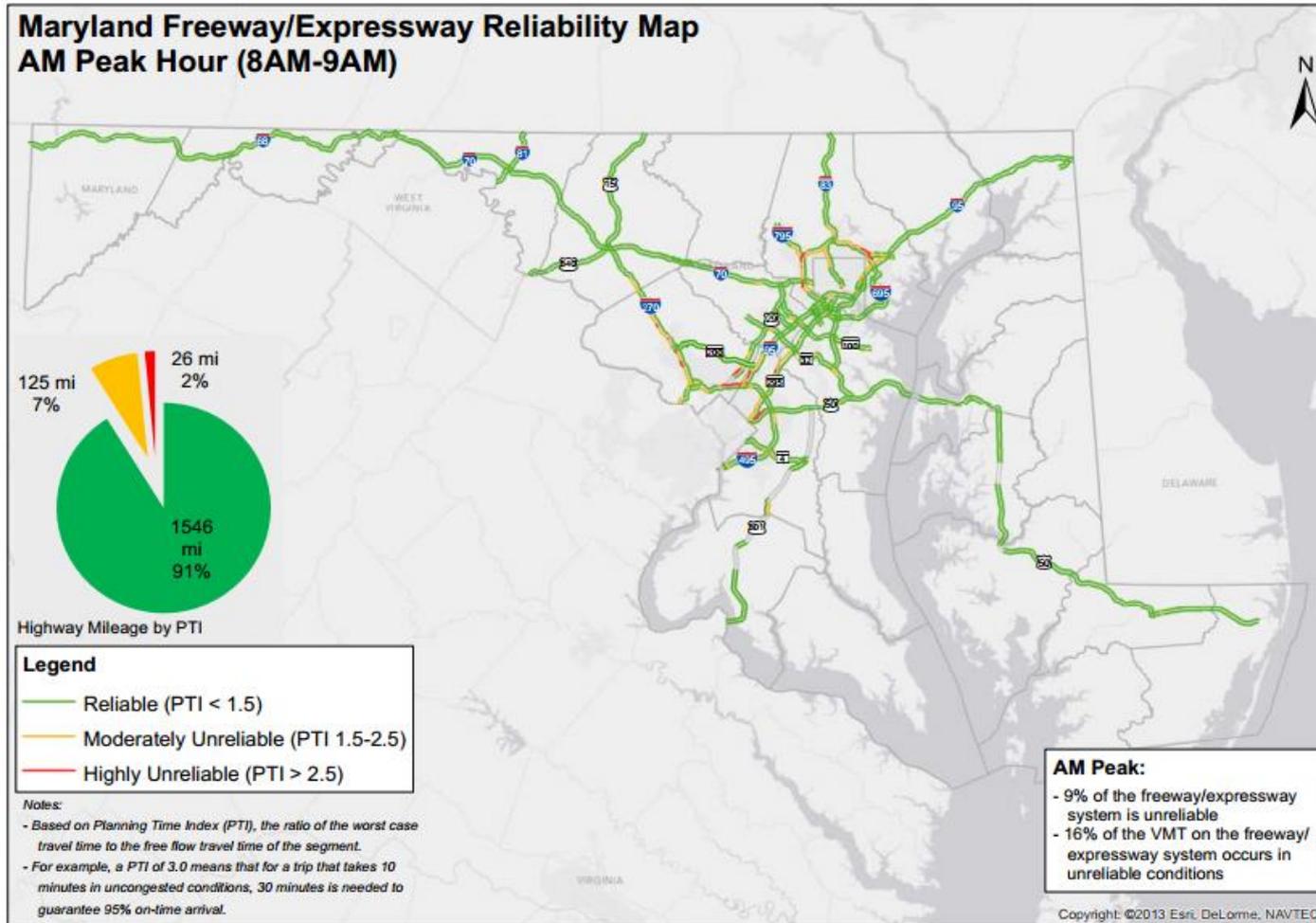
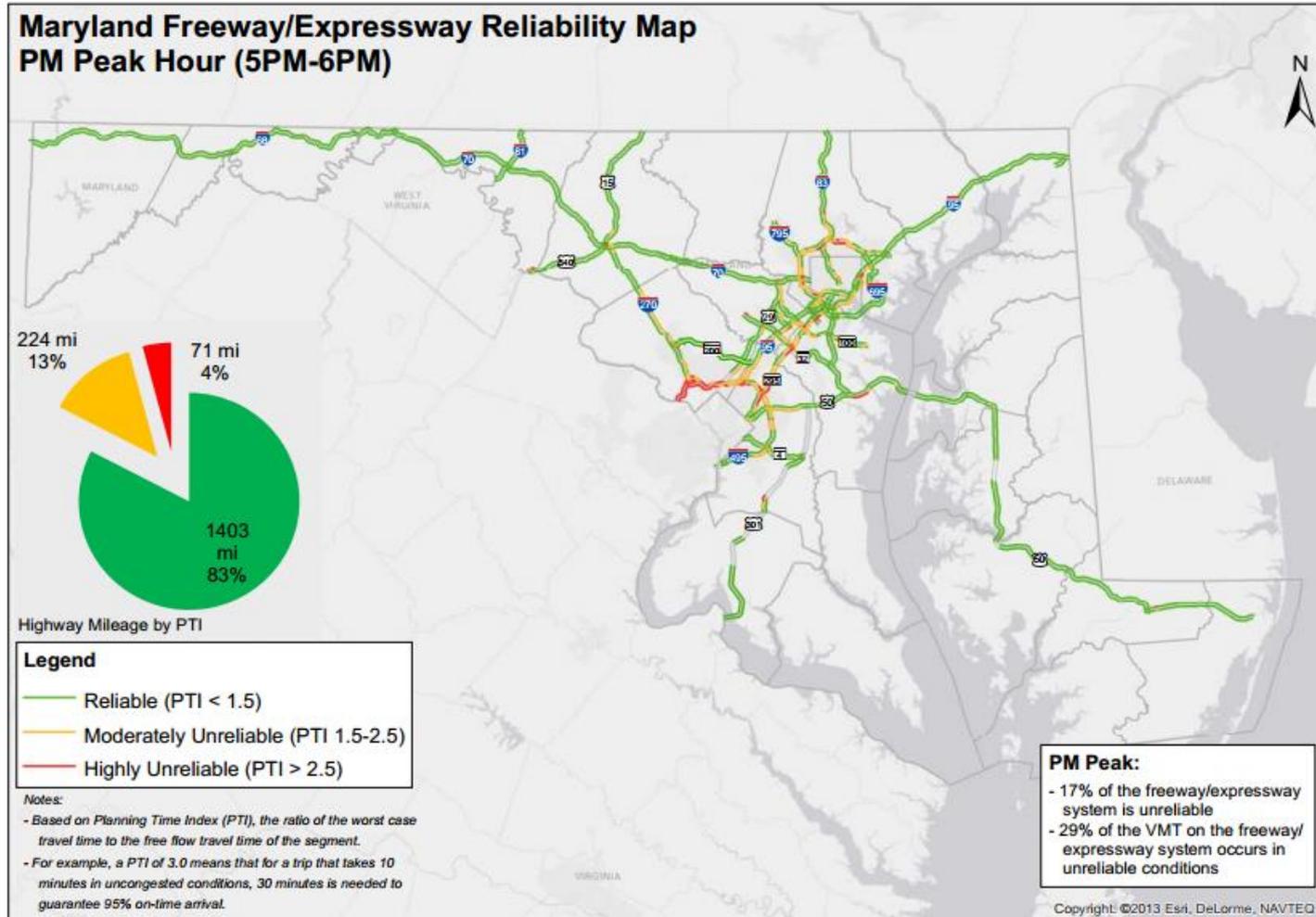


Figure 4

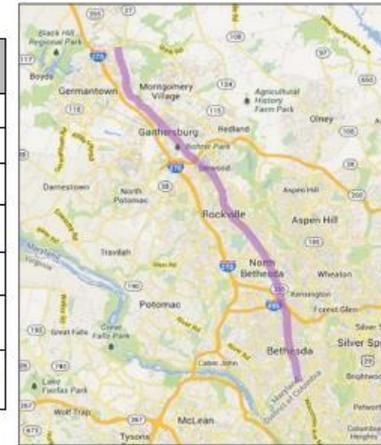


VI. Regionally Significant Corridor Performance

Performance By Corridor

MD 355

Limits:	Washington DC Line to MD 27
Study Area Length:	19.7 miles
Functional Class:	Urban Other Principal Arterial
Speed Limit	25 MPH - 45 MPH
Number of Travel Lanes:	2 - 4 NB 2 - 4 SB
Total Number of Signal Controlled Intersections:	80
Total Number of Grade Separated Interchanges:	3
Major Cross Streets:	MD 191, MD 410, MD 547, MD 187, Montrose Pkwy, MD 28, Shady Grove Rd, I-370, MD 117, MD 124, Middlebrook Rd, MD 118, MD 27



	AM Peak Hour	PM Peak Hour
2012 ADT		
33,000 - 64,000		
% Trucks		
2 - 6		
DHV		
7.5% - 9%		
	Miles of Roadway	
	AM Peak Hour	PM Peak Hour
Northbound		
LOS D or Better	19.14	15.59
LOS E	0.56	4.11
LOS F	0	0
Southbound		
LOS D or Better	13.4	19.14
LOS E	5.45	0.56
LOS F	0.85	0
Intersection data available at 34 of 80 signalized intersections.		

LOS 'E' Intersections
MD 355 at Edmonston Dr/W. Edmonston Dr (AM)
MD 355 at Foreman Blvd (AM)
MD 355 at Tuckerman Ln (North Intersection) (AM)
MD 355 at Gude Dr (AM,PM)
MD 355 at MD 124 (AM,PM)
MD 355 at Grosvenor Ln (PM)
MD 355 at MD 191 (PM)

LOS 'F' Intersections
MD 355 at Grosvenor Ln (AM)
MD 355 at Cedar Ln (AM,PM)
MD 355 at MD 91/Wootton Pkwy (AM,PM)
MD 355 at Shady Grove Rd (AM,PM)
MD 355 at Rollins Ave/Twinbrook Pkwy (PM)
MD 355 at Tuckerman Ln (North Intersection) (PM)

LOS 'E' Roadway Segments
MD 191 to MD 410 - AM (NB)
Alta Vista Rd to Cedar Ln - AM (SB)
IS 495 to Alta Vista Rd - AM (SB)
E. Gude Dr to MD 28 - AM (SB)
MD 124 to Shady Grove Rd - AM (SB)
MD 191 to MD 410 - PM (NB)
Cedar Ln to Alta Vista Rd - PM (NB)
Alta Vista Rd to IS 495 - PM (NB)

LOS 'E' Roadway Segments Cont.
Shady Grove Rd to MD 124 - PM (NB)
MD 410 to MD 191 - PM (SB)

LOS 'F' Roadway Segments
Jones Bridge Rd to MD 410 - PM (SB)

LOS 'F' Intersections

INTERSECTIONS

Traffic data has been collected at numerous intersections throughout the state in the past three years. The following intersections have been defined to operate at the worse conditions or level of service 'F' based on the counted locations:

ANNE ARUNDEL

- MD 2 @ Tarragon Lane
- MD 3 @ Crawford Boulevard
- MD 3 @ MD 424
- MD 3 @ MD 175
- MD 175 @ MD 713

BALTIMORE

- US 1 @ Rossville Boulevard
- MD 26 @ I-695 Ramps
- MD 43 @ Honeygo Boulevard
- MD 140 @ MD 940

CALVERT

- MD 2 @ MD 4
- MD 2 @ MD 524

CHARLES

- MD 5 @ Billingsley Road
- MD 228 @ MD 229

FREDERICK

- US 15 @ W. 7th Street

HARFORD

- MD 24 @ Singer Road
- MD 24 @ W. Ring Factory Road
- MD 24 @ I-95 Ramps

HOWARD

- US 1 @ Guilford Road
- US 40 @ Rogers Avenue
- MD 175 @ Tamar Drive

MONTGOMERY

- MD 28 @ MD 97
- MD 28 @ MD 586
- MD 28 @ MD 115
- US 29 @ Dale Drive
- US 29 @ Southwood Drive
- US 29 @ Tech Road
- MD 97 @ Old Baltimore Road
- MD 97 @ Seminary Road
- MD 97 @ Plyers Mill Road
- MD 97 @ Seminary Place
- MD 97 @ MD 390
- MD 108 @ Muncaster Road
- MD 117 @ Waring Station Road
- MD 119 @ Lakelands Drive
- MD 119 @ Muddy Branch Road
- MD 185 @ MD 410
- MD 185 @ Jones Bridge Road
- MD 185 @ MD 191
- MD 185 @ MD 192
- MD 187 @ Tuckerman Lane
- MD 190 @ Greenway Drive
- MD 355 @ Shady Grove Road
- MD 355 @ Twinbrook Parkway
- MD 355 @ Grosvenor Lane
- MD 355 @ Cedar Lane
- MD 355 @ MD 911

LOS 'F'

Intersections

- MD 355 @ Tuckerman Lane
- MD 547 @ Summit Avenue
- MD 586 @ Randolph Road
- MD 650 @ Adelphi Road
- MD 650 @ Randolph Road

PRINCE GEORGE'S

- US 1 @ Cherry Hill Road
- US 1 @ Edgewood Road/I-95 Ramp
- US 1 @ MD 410
- MD 4 @ Dower House Road
- MD 4 @ MD 337
- MD 5 @ MD 373
- MD 5 @ Surratts Road
- MD 5 @ Brandywine Road
- MD 193 @ MD 202
- MD 197 @ MD 198
- MD 197 @ Powder Mill Road
- MD 202 @ Brightseat Road
- MD 210 @ Farmington Road
- MD 210 @ Livingston Road/Kerby Hill Road
- MD 210 @ Fort Washington Road
- MD 210 @ Wilson Bridge Drive
- MD 214 @ I-95 SB Ramps
- MD 228 @ Bealle Hill Road
- MD 228 @ MD 229
- US 301 @ MD 197
- US 301 @ Clymer Drive
- MD 410 @ MD 212
- MD 410 @ MD 450
- MD 414 @ I-95 Ramps
- MD 458 @ Swann Road
- MD 637 @ Suitland Parkway

SAINT MARY'S

- MD 235 @ MD 237
- MD 235 @ Town Creek Drive
- MD 235 @ Shady Mile Drive

WORCESTER

- US 50 @ MD 528

